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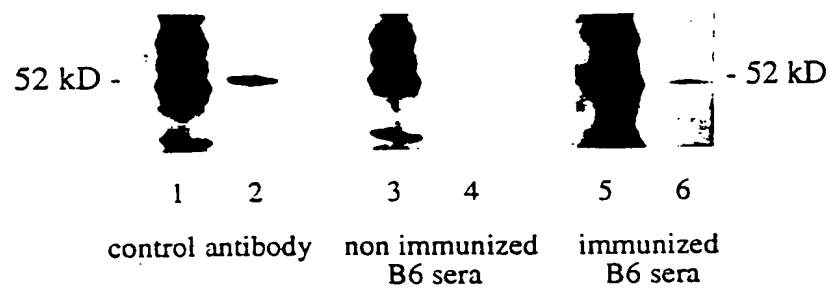
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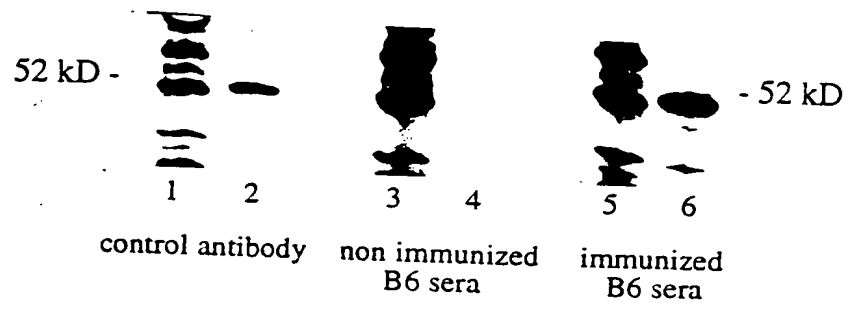
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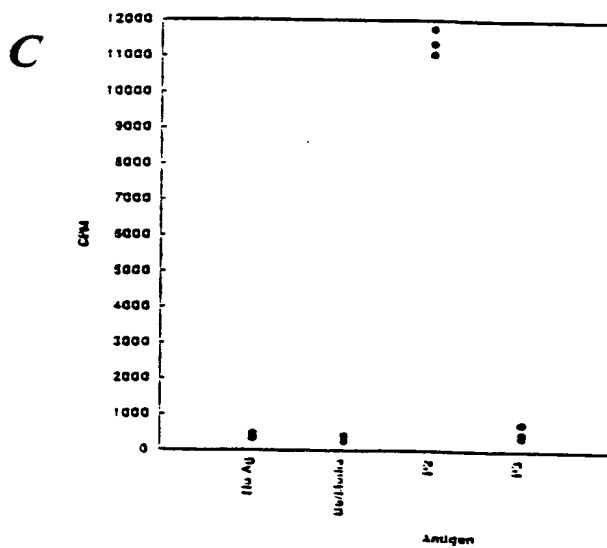
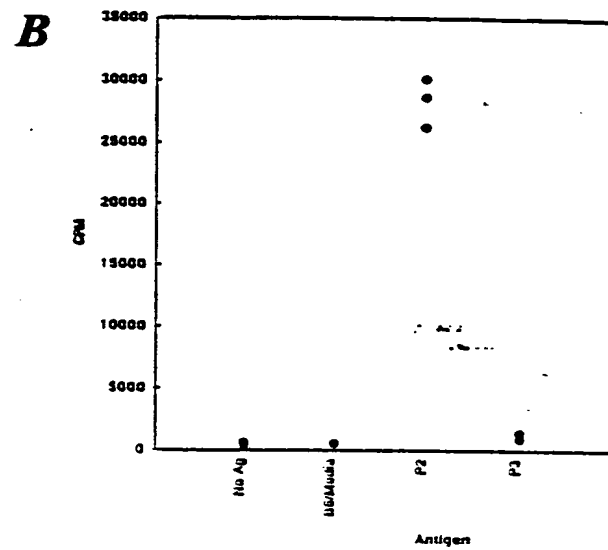
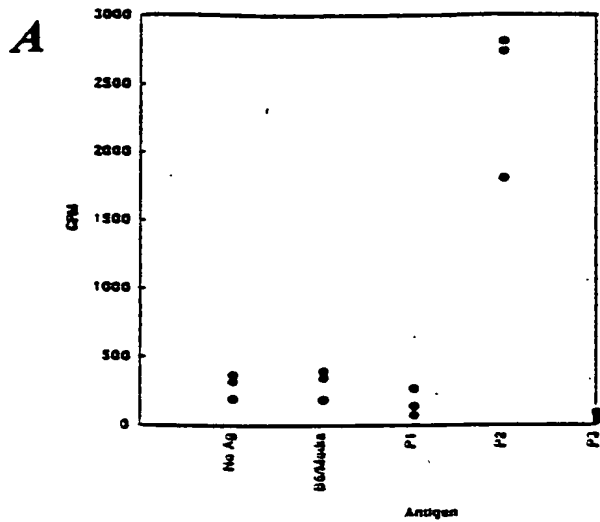
**FIG. 2**



**FIG. 3**

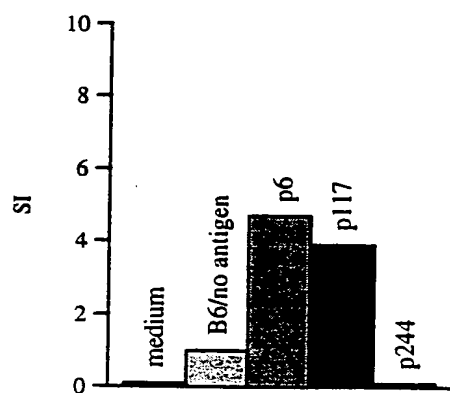


**FIG. 4**

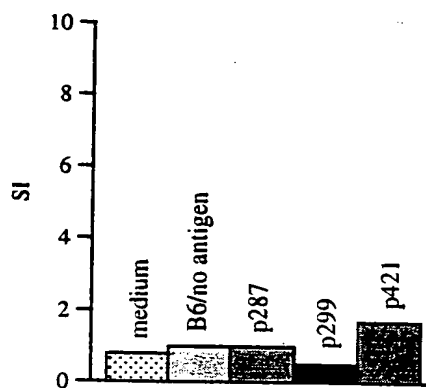


**FIG. 5A-5C**

**A** Vaccine A stimulated line

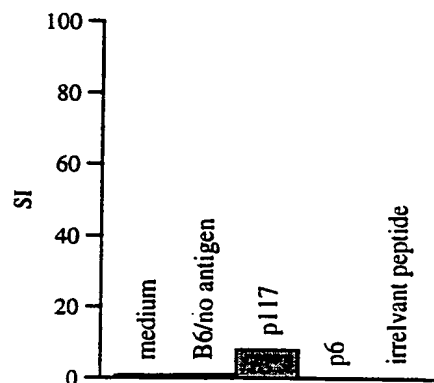


**B** Vaccine B stimulated line

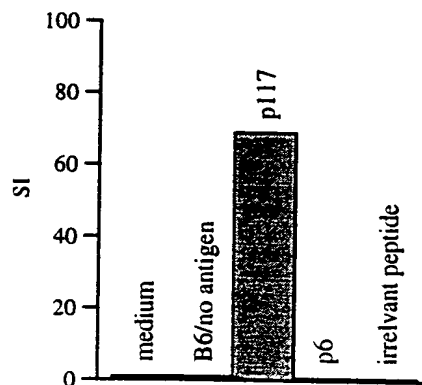


**FIG. 6A and 6B**

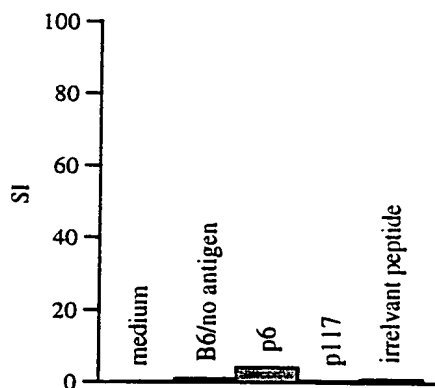
**A** p117-139 stimulated line



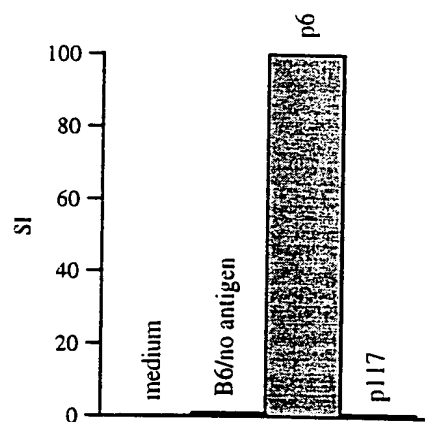
**B** p117-139 stimulated clone



**C** p6-22 stimulated line



**D** p6-22 stimulated clone



**FIG. 7A-7D**



005220-1849460

```

5   10  15  20  25  30  35  40  45  50  55  60  65  70  75
MGSDVRLNALLPAVPSLGGGGGCGALPVSGAACWAPVLDFAFPPGASAYGSLGGPAPPPAPPPPPPPPPHSHFIKQE
.....AAAAAAAAAAAAAAAA.....AAAAA.....AAAAAAAAAAAA.....
.....RRRR.....
.....

80  85  90  95  100 105 110 115 120 125 130 135 140 145 150
PSWGGAEPEHEEQCLSAFTVHFSGQFTGTAGACRYGPFPGPPPSQASSGQARMFPNAPYLPSCLESQPAIRNQYS
.....AAA.....AAAA.....AAA.....AAAAA.....
.....RRRR.....RRRR.....
.....DDDDDDDD.....
.....

155 160 165 170 175 180 185 190 195 200 205 210 215 220 225
TFTDGTTPSYGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSCGTSQALLLRTPYSSDN
.....AAAAA.....AAAAA.....AA
.....RRRR.....
.....DDDDDDDDDDDDDDDD.....
.....

230 235 240 245 250 255 260 265 270 275 280 285 290 295 300
LYQMTSQLECMTNQMNLGATLKGVAAGSSSVKXWTEGQSNHSTGYESONHTTPILCGAQYRIHTHGVFRGIQDV
AAAAAAAA.....AAA.AAA.....AAAAAAAAAAAA
.....RRRRRRRRRR.....RRRR.....RRRR.....
DDDDDD.....DDDDDDDDDDDD.....ddddd.....

305 310 315 320 325 330 335 340 345 350 355 360 365 370 375
RRVPGVAPTLVRSASETSEKRPFMCAYPGONKRYFKLSHLQMHRSRKHTEKPYQCDFKDCERRFSRSDQLKRHR
AAAAA.AAAAAAAAAA.....AAAA.AAAAAAAAAA
.....RRRRR.....RRRR.....
.....DDDDDD.....
.....

380 385 390 395 400 405 410 415 420 425 430 435 440 445 450
RHTGVKPFQCKTCQRKFSRSDHLKTHTRTHGTSEKPFSCRWPSQKKFARSDELVRHHNMHQRMNTKLQAL
.....AAAA.AAAA.AA.....AAAA.....AAA.....AAAAA.....AAA.....
.....RRRR.RRRR.....
.....ddddd.....
.....
```

FIG. 8A

009200 1319200

```

 5   10   15   20   25   30   35   40   45   50   55   60   65   70   75
MGSDVRDLNALLPAVSSLGCGGLPVSGAACWAPVLDFAAPPASAYGSLGGPAPPPAPPPPPPPPHSFIKQE
.....AAAAAAAAAAAAAAAA.....AAAAA.....AAAAAAAAAAAA.....
.....RRRR.....
.....

 80   85   90   95  100  105  110  115  120  125  130  135  140  145  150
PSWGGAEPEEQCLSAFTLHFSGQFTGTAGACRYGPFPGPPPSQASSGQARMFPNAPYLPSCLESQPTIRNQGYS
.....AAAA.....AAA.....AAAAA.....
.....RRRR.....RRRR.....
.....DDDDDDDD.....

155  160  165  170  175  180  185  190  195  200  205  210  215  220  225
TVTFDGAPEYGHTPSHHAAQFPNHSFKHEDPMGQCGSLGEQQYSVPPPVYGCHTPTDSCTGSQALLRTPYSSDN
.....AAAA.....AAAAA.....AA
.....RRRR.....
.....DDDDDDDDDDDDDD.....

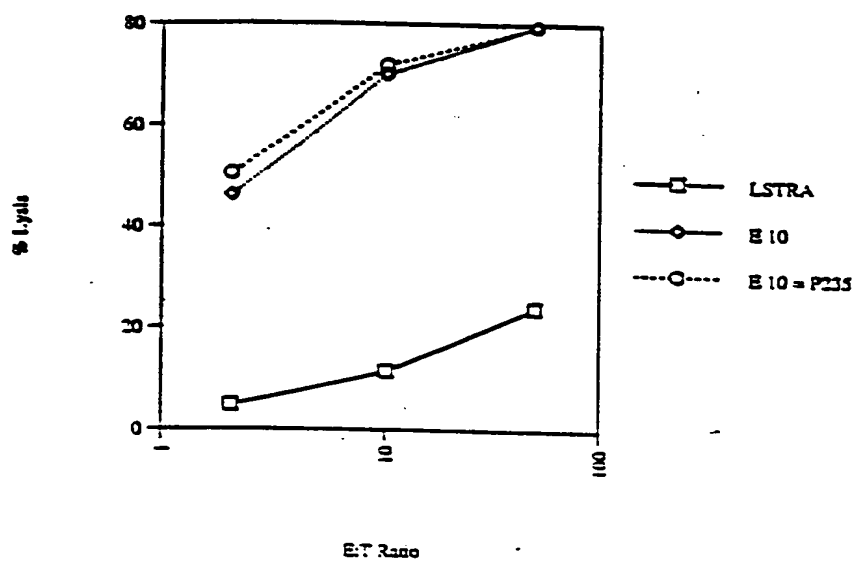
230  235  240  245  250  255  260  265  270  275  280  285  290  295  300
LYCMTSQLCMTWNQMNLGATLKGMAAGSSSSSVKWTGQSNHGIGYESDNHTAPILCGAQYRIHTGVFRGIQDV
AAAAA.....AAA.AAA.....AAAAA.....
.....RRRRRRRRRR.....RRRR.....RRRR.....
DDDDDD.....DDDDDDDDDDDD.....ddddd.....

305  310  315  320  325  330  335  340  345  350  355  360  365  370  375
RRVSGVAPTILVRSASETSEKRPFMCAYPGONKRYFKLSHLQMHRSRKHTEKPYQCDFKDCERRFSRSDQLKRHQR
AAAAA.....AAAAA.....AAAA.AAAAAA.....
....RRRR.....RRRR.....
..DDDDDDDDDDDD.....

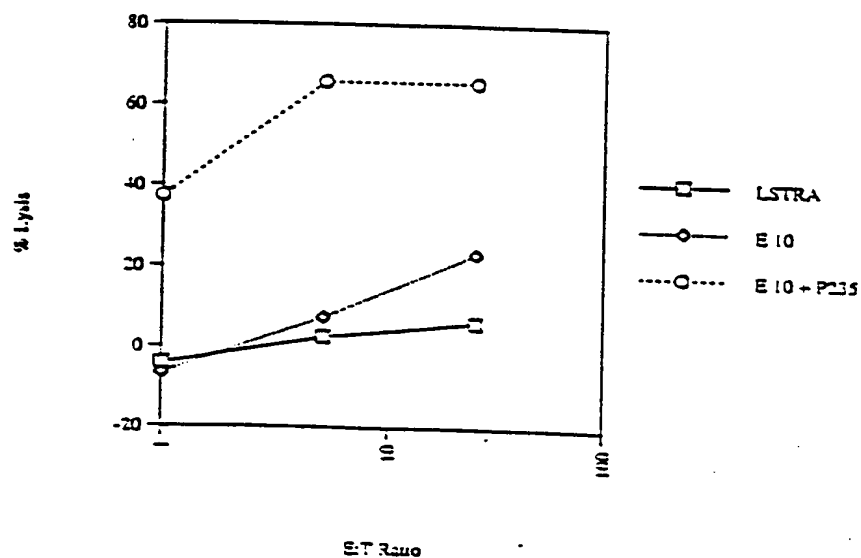
380  385  390  395  400  405  410  415  420  425  430  435  440  445  450
RHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFECRWHSQCQKXFAARSDLVRRHNMHQRNMTKLHVAL
.....AAAA.AAAA..AA.....AAAA.....AA.....AAAAA.....AAAA.....
.....RRRR..RRRR.....
.....dddddddddd.....
```

FIG. 8B

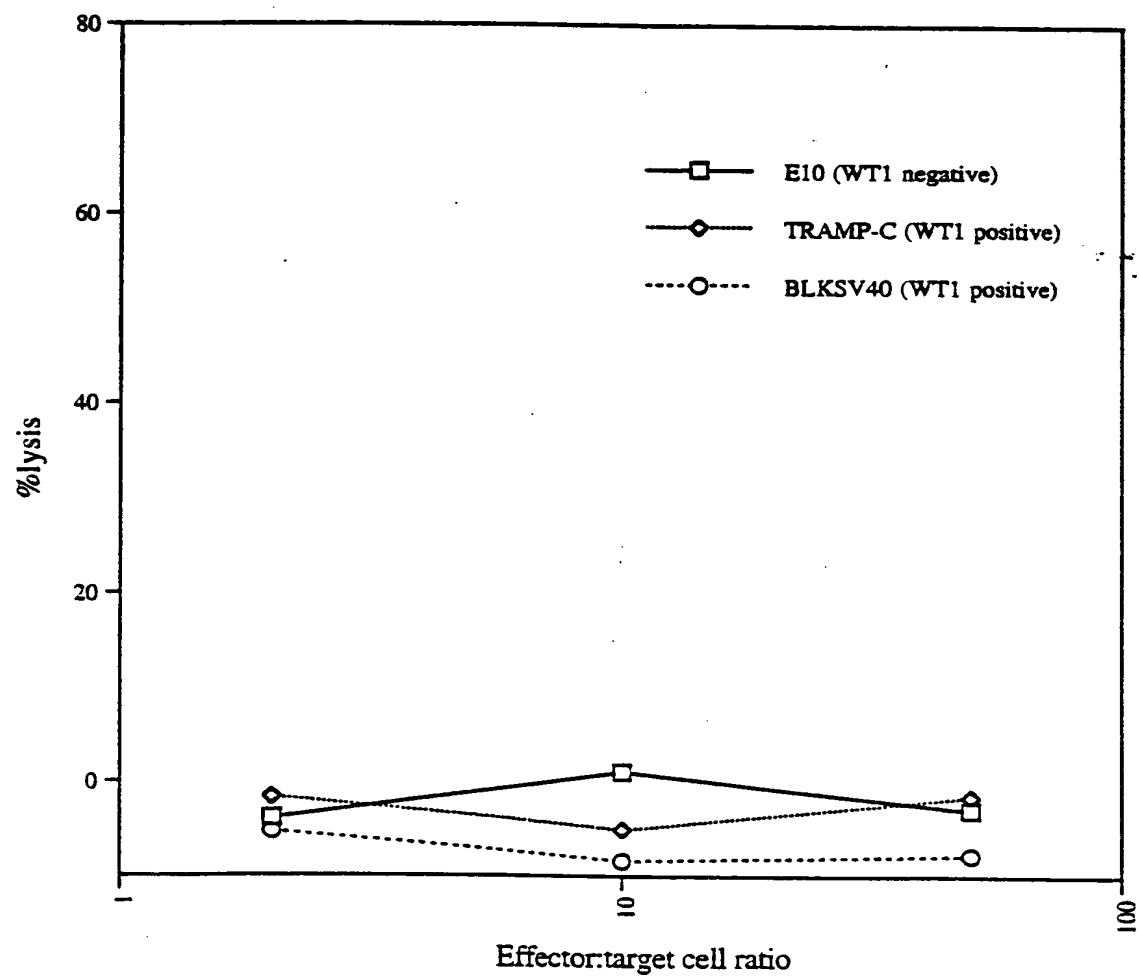
**A**



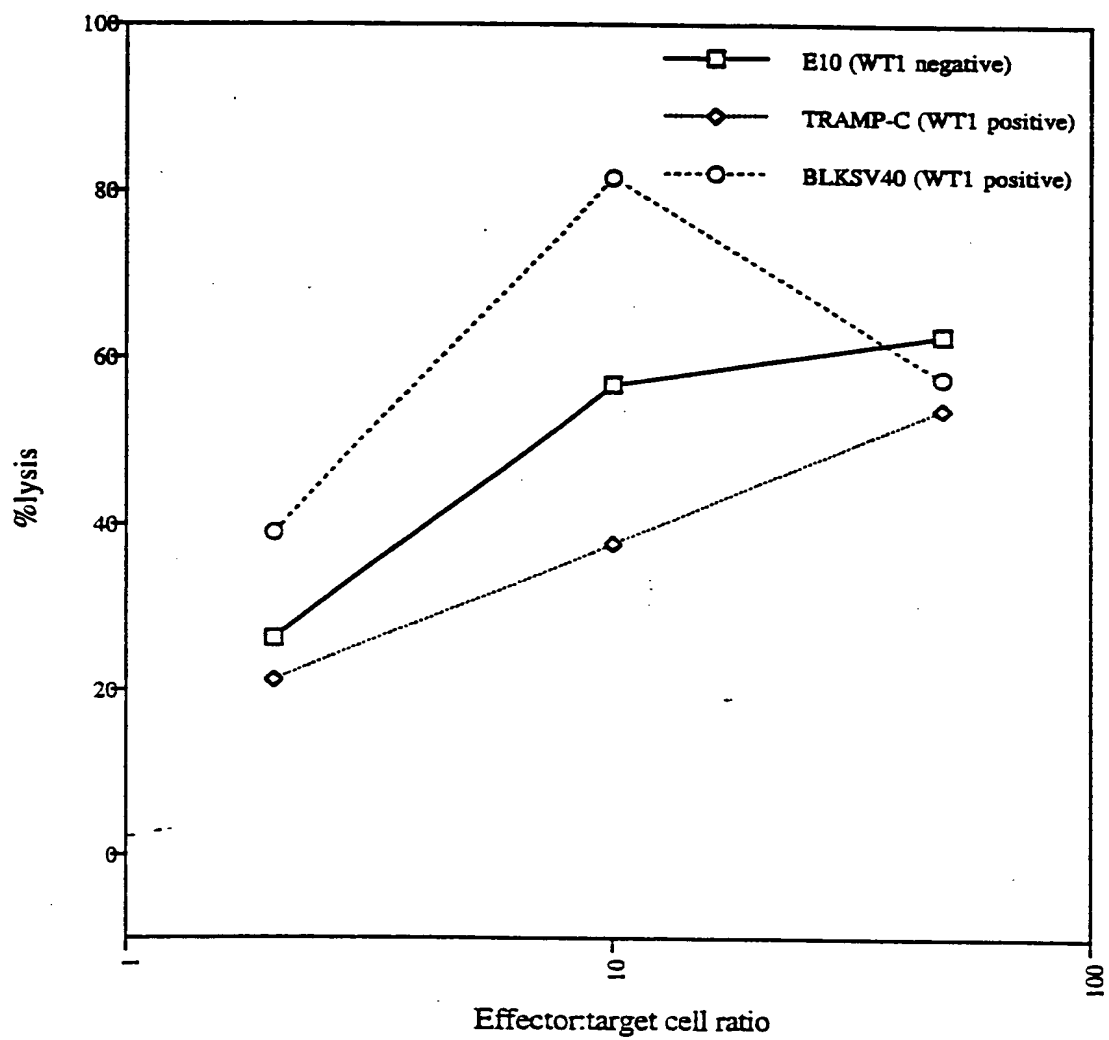
**B**



**FIG. 9A and 9B**



**FIG. 10A**



**FIG. 10B**

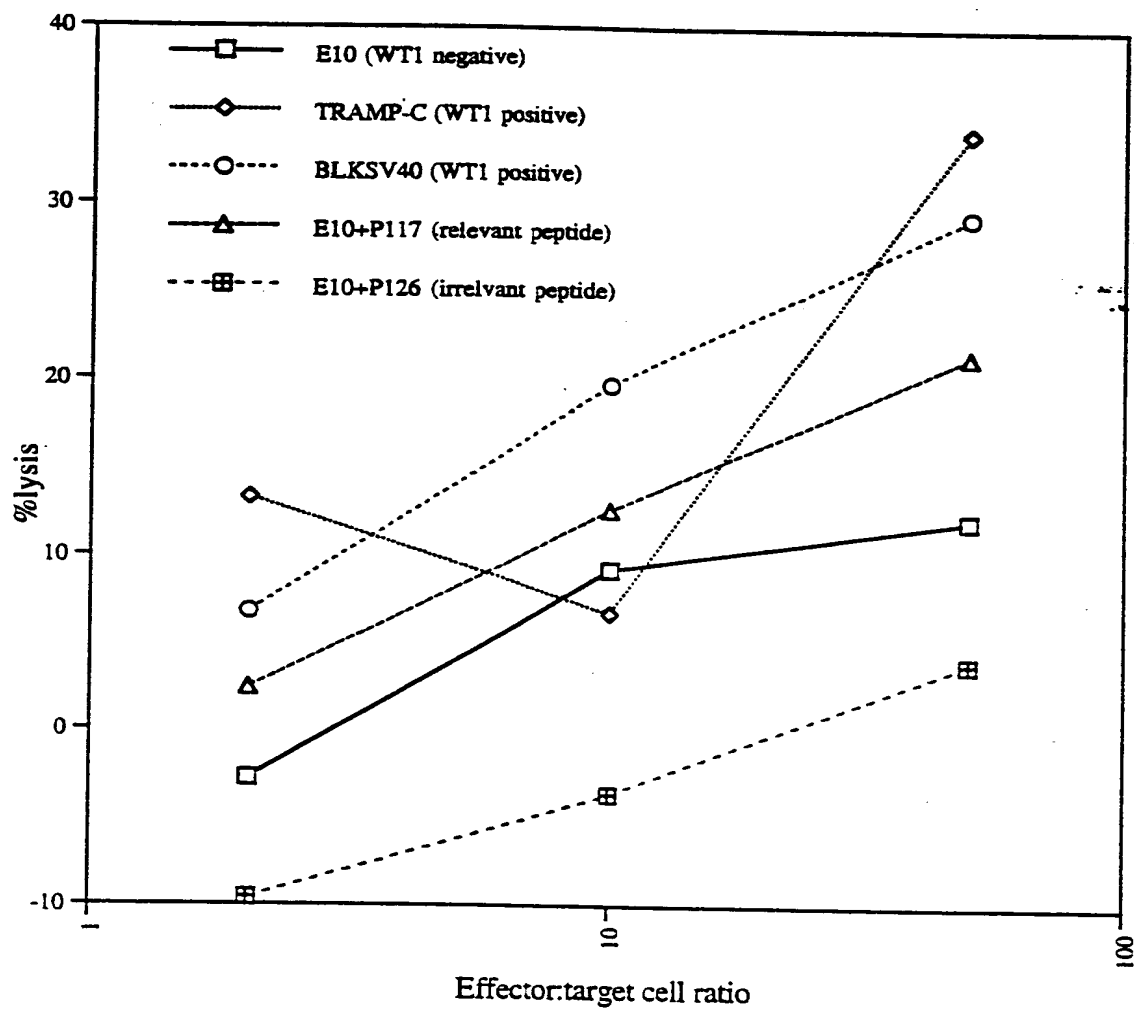


FIG. 10C

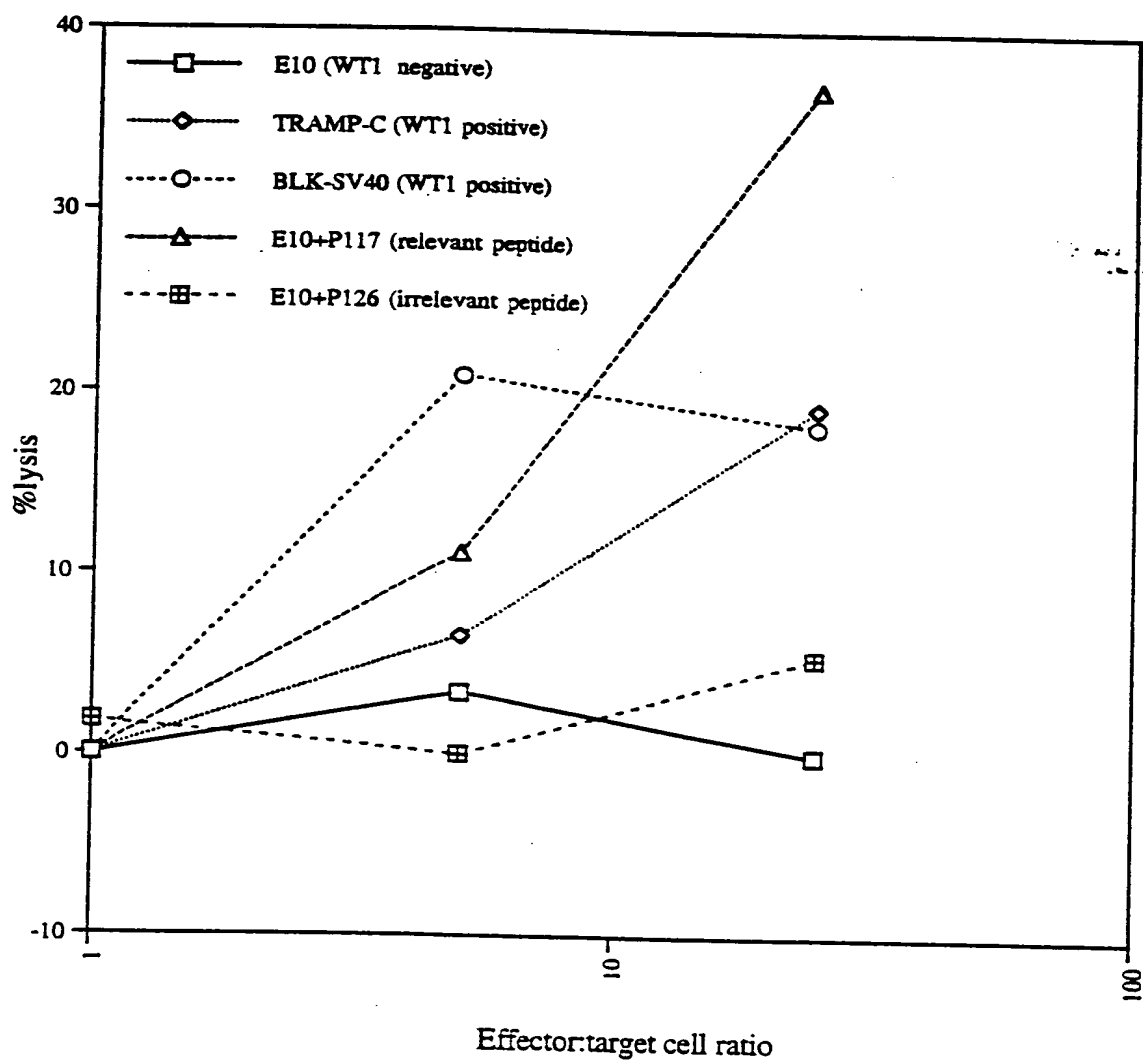
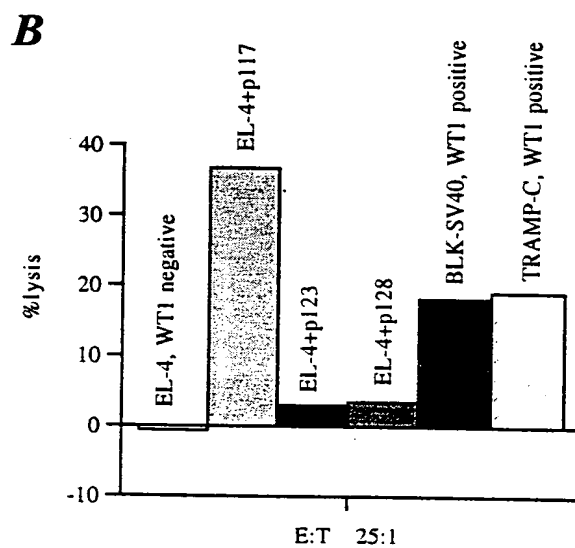
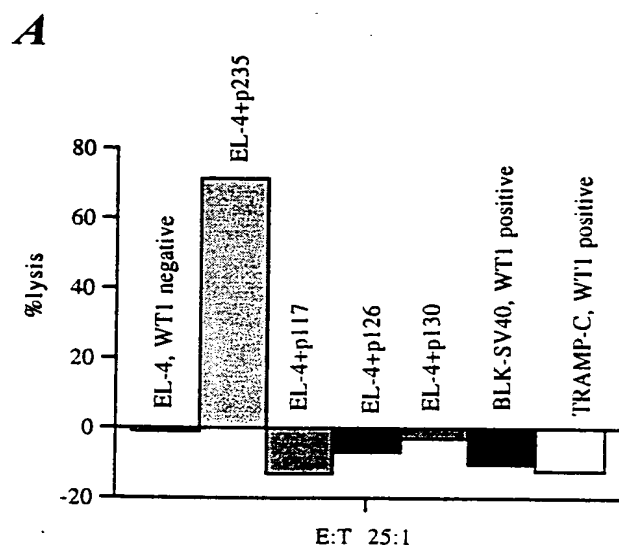
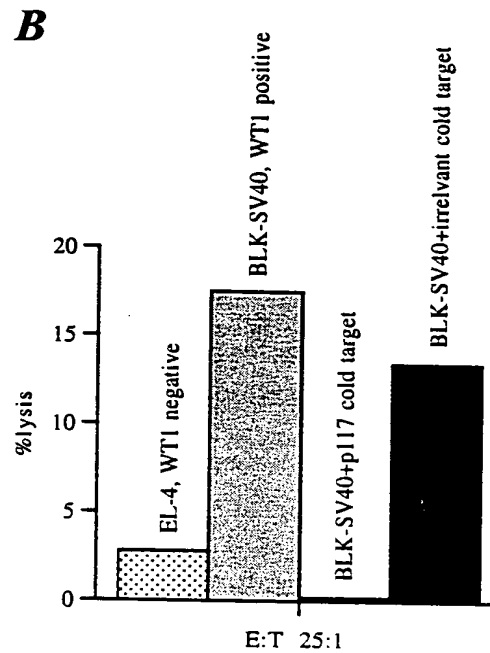
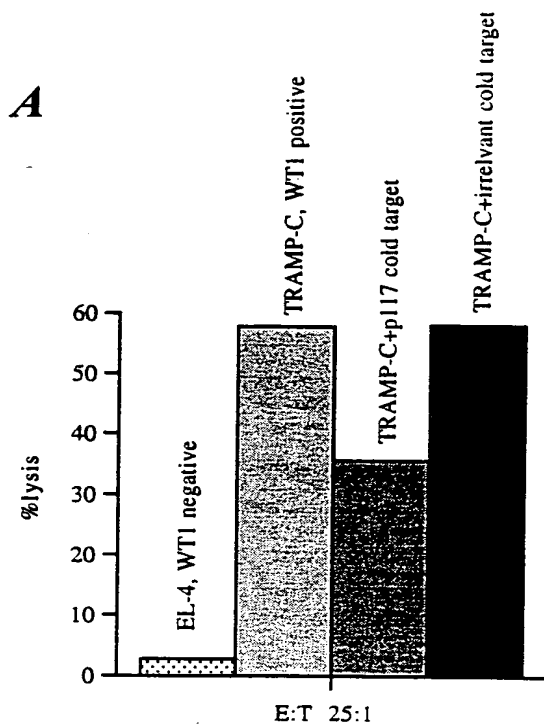


FIG. 10D



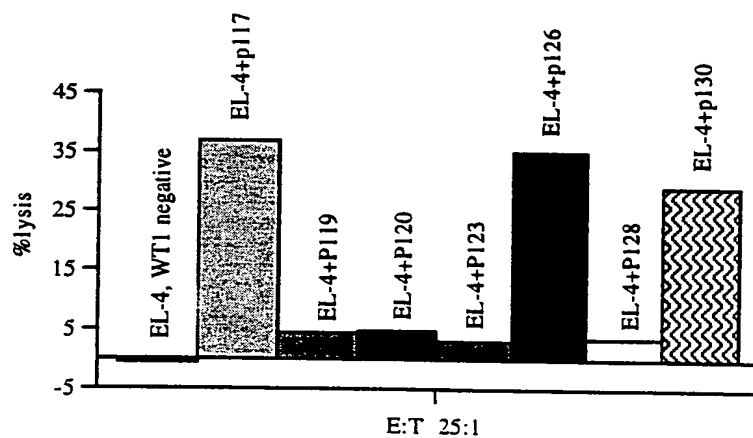
**FIG. 11A and 11B**



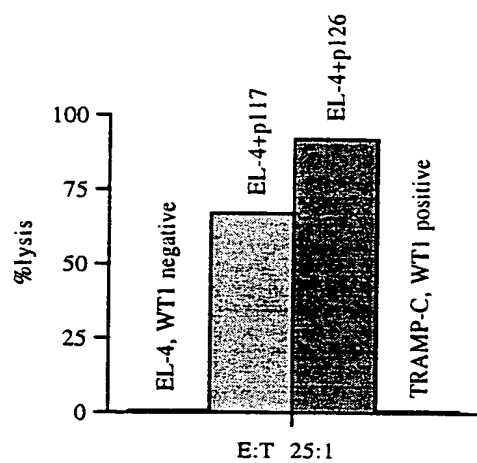


**FIG. 12A and 12B**

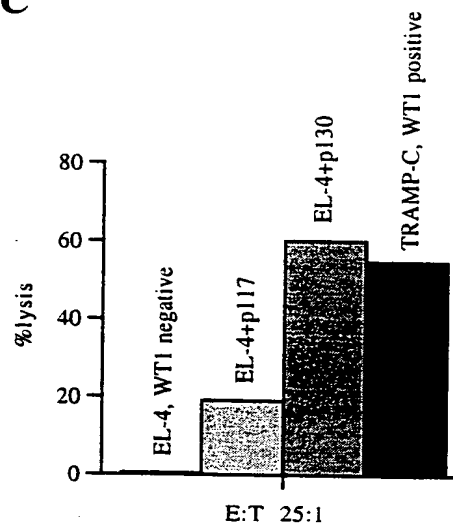
**A**



**B**



**C**



**FIG. 13A-13C**